

Mitigation and Monitoring Reporting Plan

Seismic Stabilization Final MND

Rancho San Andrés Castro Adobe

Mitigation Measure	Timing	Responsible for Implementing Mitigations	Responsible for Insuring Implementation	Required for Task to be Complete (deliverable)	Signature of Responsible Party and Date Completed
Air Quality					
AIR-1					
<ul style="list-style-type: none"> All equipment engines will be maintained in good condition, in proper tune (according to manufacturer's specifications), and in compliance with all applicable State and federal requirements. Excavation activities would be suspended when sustained winds exceed 15 mph or instantaneous gusts exceed 25 mph. All trucks hauling dirt, sand, or loose materials will be covered or maintain at least two feet of freeboard. Inactive storage piles will be covered. 	During construction	Construction contractor; project manager	State Representative	Mitigations successfully implemented until completion of project	
Cultural Resources					
CULT-1					
<ul style="list-style-type: none"> Whenever applicable, the Secretary of the Interior's Standards for historic structure rehabilitation will be followed. Wherever possible, historic building elements and features must be protected, preserved and/or reproduced with like-kind materials. Any material attached to the historic fabric of the building must be done in a reversible manner. Any attachment to historic fabric that differs from the Rehabilitation Drawings must be approved, in advance, by a DPR-qualified cultural resource specialist. All modifications will comply with the California Historical Building Code. The general recommendations of the RSA Castro Historic Structure Report will be used to determine design and construction criteria. 	Design; prior to and during construction	DPR-qualified cultural resources specialist(s), construction contractor, designers, project manager	State Representative DPR cultural project leads	Plans reviewed and approved prior to construction. Alterations reviewed and approved by on-site DPR-qualified cultural resource specialist. Completion of project in compliance with Secretary of the Interior Standards. Successful salvage and recordation of historic features and materials throughout the construction process.	
CULT-2					
<ul style="list-style-type: none"> A DPR-qualified cultural resource specialist must be notified 72 hours in advance, when the exposure of historic fabric is likely. The cultural resource specialist will monitor the work and record pertinent information. 	construction	DPR qualified cultural resources specialist(s), construction contractor, project manager	State Representative. DPR cultural project leads	Completion of monitoring report, including an explanation of any incidents, actions taken, success of the avoidance and protection measures, and the general condition of the occurrences.	
CULT-3					
<ul style="list-style-type: none"> Coring and rod reinforcement will be completely hidden within the walls. Grout injected into wall cracks will be tinted to match the existing bricks and grout. Wall finishes will closely match existing surfaces wherever possible. Existing adobe bricks will be used whenever possible. Replacement adobe bricks will be selected in consultation with a DPR-qualified cultural resource specialist. 	Design and construction	DPR qualified cultural resources specialist, construction contractor, designer	State Representative, DPR lead historian	Construction conducted in accordance with these restrictions.	
CULT-4					
<ul style="list-style-type: none"> As discussed in the Historic Structure Report, Window 13, which exhibits all the attributes of original construction, is the model for the historic window construction. Replacement materials will be selected in consultation with a DPR-qualified cultural resource specialist. 	Design and construction	Cultural resource specialists; construction contractor	State Representative; lead cultural resource specialist(s)	Approval of construction plan prior to start of work.	

CULT-5 MONITORING					
<ul style="list-style-type: none"> Due to the archaeological nature of the area surrounding the Adobe, all ground-disturbing activities will be monitored by a DPR-qualified cultural resource specialist familiar with the area's historic landscape and cultural resources. DPR Cultural Resource staff will be notified a minimum of 72 hours prior to the start of ground-disturbing work to schedule archaeological monitoring. The monitor will have the authority to request the State Representative to suspend work in the immediate area, if potentially significant cultural resources are unearthed. A report of the findings from the monitoring and any resulting excavations will be completed and copies distributed to the Office of Historic Preservation, the DPR Cultural Resource Division, DPR Northern Service Center and Santa Cruz District Headquarters. 	during construction.	Archeologist, construction contractor, supervising personnel	State Representative; lead cultural resource specialist(s)	<p>Completion of project and conservation of any finds in compliance with Secretary of the Interior Standards</p> <p>Completion of monitoring report, including an explanation of any incidents, actions taken, success of the avoidance and protection measures, and the general condition of the occurrences.</p>	
CULT-6					
<ul style="list-style-type: none"> In areas where safety concerns prevent full excavation, samples of soil excavated by construction workers will be screened through mesh. Any artifacts recovered would be cleaned, sorted, catalogued, and prepared for curation at a DPR facility. Where possible, features encountered will be documented in place (or removed and curated, at the discretion of the supervising archaeologist) and trench profiles drawn. A report of the findings from the excavations will be incorporated into the monitoring report.. 	during construction	DPR-qualified cultural resources specialist, project manager, construction contractor	State Representative; lead cultural resource specialist(s)	Completion of monitoring report, including an explanation of any incidents, actions taken, success of the avoidance and protection measures, and the general condition of the occurrences.	
CULT-7					
<ul style="list-style-type: none"> In the event that human remains are discovered, work will cease immediately in the area of the find and the project manager/site supervisor will notify the appropriate DPR personnel. The DPR Sector Superintendent (or authorized representative) will notify the County Coroner in accordance with §7050.5 of the California Health and Safety Code. If the coroner determines the remains represent Native American interment, the Native American Heritage Commission in Sacramento would be consulted to identify the most likely descendants and appropriate disposition of the remains. Work will not resume in the area of the find until proper disposition is complete, per PRC §5097.98. 	construction	DPR-qualified cultural resources specialist(s), project manager; contractor	State Representative; DPR cultural project leads	Implementation of measures in case of find.	
Geology and Soils					
GEO-1 SEISMIC BUILDING REQUIREMENTS					
<ul style="list-style-type: none"> This project will stabilize and seismically retrofit the Adobe according to earthquake design requirements as specified in the current version of the California Historical Building Code, California Code of Regulations, Title 24, Part 8, and the general recommendations in the 2003 Seismic Evaluation and Retrofit Report by E. Leroy Tolles of ELT and Associates (included as part of the 2003 Historic Structures Report). 	Prior to and during construction	Lead Historian; Engineering Geologist	State Representative	<p>Design plans reviewed and approved by DPR engineering geologist and lead historian.</p> <p>Required information incorporated into the final design drawings & specifications.</p> <p>Retrofit completed in compliance with CHBC.</p>	
<ul style="list-style-type: none"> Any new (or existing) equipment (hot water heaters, tall bookcases, etc) installed as part of the building stabilization will be secured to the walls and/or floor to prevent damage in the event of a large earthquake, per California Building Code requirements. 	During construction	Construction contractor	State Representative	Installations completed in compliance with CBC requirements.	
<ul style="list-style-type: none"> State Park staff will inspect the building as soon as possible after a large earthquake to ascertain any damage. Any major damage would require inspection by a qualified structural engineer before the building could resume use by Park staff or the public. 	During and after construction	DPR structural engineer	State Representative, during construction; Park Maintenance Chief, during operation	Completion of initial inspection and repairs; safety certification for continued construction or public use.	

GEO-2					
<ul style="list-style-type: none"> Best Management Practices (BMPs) would be used to prevent excessive soil erosion or loss of topsoil while the ground surface is disturbed. Any stormwater inlets in the project vicinity would be protected with silt fences or fiber rolls as necessary. Stockpiled soil would be covered and secured, especially during rainfall or windy conditions. 	During construction	Construction contractort	State Representativet	Required information incorporated into the final design drawings, specifications, and contracts. BMPs implemented	
Hazards and Hazardous Materials					
HAZMAT-1					
<ul style="list-style-type: none"> All equipment would be inspected for leaks immediately prior to the start of construction, and regularly inspected thereafter until equipment is removed from park premises. The contractor(s) would prepare an emergency spill response plan prior to the start of construction and maintain a spill kit on-site throughout the life of the project. This plan would include a map that delineates construction staging areas, where refueling, lubrication, and maintenance of equipment may occur. In the event of any spill or release of any chemical in any physical form at the project site or within the boundaries of Rancho San Andrés Castro Adobe during construction, the contractor would immediately notify the appropriate DPR staff (e.g., project manager or supervisor). Equipment would be cleaned and repaired (other than emergency repairs) outside the park boundaries. All contaminated water, sludge, spill residue, or other hazardous compounds would be disposed of outside park boundaries, at a lawfully permitted or authorized destination. 	prior to and during construction	Contractor, PM	State Representative	SPR Plan developed and implemented Equipment monitored for leaks while on State Property Equipment cleaned and contaminants disposed of in compliance with mitigation requirements and local, state, and federal regulations.	
HAZMAT-2 ASBESTOS AND LEAD CONTAINING MATERIALS					
<ul style="list-style-type: none"> Materials containing hazardous substances will either be removed or encapsulated as necessary to protect public health and safety, including workers. Since the point count method was not utilized to refine the asbestos percentage results, all asbestos-containing material must be disposed of as hazardous asbestos waste. Asbestos-containing materials in good condition that will not be disturbed as part of this project do not need to be removed. Workers should be advised not to drill, saw, scrape or otherwise disturb the material without taking precautionary measures. Lead-containing materials in good condition that will not be disturbed as part of this project do not need to be removed. Painted surfaces that contain lead will be made known to workers who may disturb them as part of the project. Building components with intact lead paint and no other hazardous materials can be disposed of as non-hazardous construction waste. Removal or disturbance of material with any detectable amount of asbestos-containing material or lead paint must be handled in accordance with OSHA regulations. All hazardous materials will be removed by trained and authorized personnel and disposed of at a licensed facility (generally a Class III landfill), in compliance with local, state, and federal regulations and guidelines. 	Prior to construction, during construction	Contractor, PM	State Representative	Hazardous materials disposed of in compliance with mitigation requirements and local, state, and federal regulations	
HAZMAT-3 CONSTRUCTION FIRE MANAGEMENT					
<ul style="list-style-type: none"> A fire safety plan will be developed by the contractor and approved by DPR prior to the start of construction. Spark arrestors or turbo-charging (which eliminates sparks in exhaust) and fire extinguishers will be required for all heavy equipment. Construction crews will be required to park vehicles away from flammable material, such as dry grass or brush. At the end of each workday, heavy equipment will be parked over mineral soil, asphalt, or concrete to reduce the chance of fire. Fire suppression equipment will also be available and located on park grounds. 	Prior to and during construction	Construction contractor	State Representative	Fire safety plan developed, approved by DPR, and implemented. Parking restrictions implemented. Fire suppression equipment available throughout construction process.	
Noise					
Noise-1					
<ul style="list-style-type: none"> Construction activities would generally be limited to 7 a.m. to 5 p.m., Monday - Friday. 	During construction	Contractor, PM	State Representative	Work hours maintained throughout project.	

<ul style="list-style-type: none">Internal combustion engines used for any purpose at the job site would be equipped with a muffler of a type recommended by the manufacturer. Equipment and trucks used for construction would utilize the best available noise control techniques (e.g., engine enclosures, acoustically attenuating shields or shrouds, intake silencers, ducts, etc.) whenever feasible and necessary.Stationary noise sources will be muffled to the extent feasible and/or, where practicable, enclosed within temporary sheds.				Noise suppression equipment installed and maintained throughout project use.	
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